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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 10/015,931 Application Number TRANSMITTAL December 8, 2001 **Filing Date FORM** Sephen CONANT **First Named Inventor** 2621 Group Art Unit (to be used for all correspondence after initial filing) Unassigned **Examiner Name** Total Number of Pages in This Submission 247 Attorney Docket Number | 81600.911 (check all that apply) **ENCLOSURES** After Allowance Communication Assignment Papers (for an Application) Fee Transmittal Form to Group Appeal Communication to Board Fee Attached Drawing(s) of Appeals and Interferences Appeal Communication to Group Licensing-related Papers Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition Proprietary Information After Final Petition to Convert to a Provisional Application Affidavits/declaration(s) Status Letter Power of Attorney, Revocation Change of Correspondence Address Other Enclosure(s) (please Extension of Time Request identify below): Terminal Disclaimer -14 IDS references (10 pages) **Express Abandonment Request** -Return Receipt postard. Request for Refund Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT The Hecker Law Group Firm By: Obi Iloputaife, Reg. No. 45,677 Individual name Signature Date June 7, 2002 CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 06/7/2002 Qeanna Blizzard Typed or printed name Date | June 7, 2002 Signature

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Application Number	10/015,931			
Filing Date	December 8, 2001 Stephen Conant			
First Named Inventor	Stephen Conant			
Group Art Unit	2621			
Examiner Name	Unassigned			
Attorney Docket Number				

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Examiner Initials	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	ľ
		BRUNO A. OLSHAUSEN and DAVID J. FIELD, Sparse coding with an overcomplete basis set: A strategy employed by V1? Deptof Psychology and Center for Neuroscience UC Davis January 8, 1998. KRYSTIAN MIKOLAJCZYK, Indexing based on scale invariant interest points. In International Conference on Computer Vision, 525-531, July 2001	-
-		CORDELIA SCHMID, ROGER MOHR and CHRISTIAN BAUCKHAGE, Comparing and Evaluating Interest Points, In International Conference on	
		Through Curvature Scale Space, IEEE Transactions on Pattern Analysis and	
	5	HANS P. MORAVEC, Techniques Towards Automatic Visual Obstacle Avoidance Stanford University, February 27, 1976	
-	6	DAVID L. DONOHO and ANA GEORGINA FLESIA, Can Recent Innovations in Harmonic Analysis 'Explain' Key Findings in Natural Image Statistics? Statistics Department. Stanford University {donoho,flesia}@stat.stanford.edu 2001 STEPHANE BRES & JEAN-MICHEL JOLION, Multiresolution Contrast Based Detection of Interest Points, Sep 24 18:14;26 METDST 1998 Laboratoire Reconnaissance de Formes et	t
		Vision, Bât 403 INSA 20, Ave. Albert Einstein, 69621 Villeurbanne Cedex, France E. LOUPIAS & N. SEBE, Wavelet-based Salient Points for Image Retrieval RR 99.11, Laboratoire Reconnaissance de Formes et Vision, INSA Lyon, November 1999. On-line http://rfv.insa-lyon.fr/~loupias/points/. PASCAL BRAND and ROGER MOHR, Accuracy in Image Measure SPIE, Videometrics III pp 218-228, 31 October – 4 November '94 Boston, U.S.A.	ł
	.	STEPHEN M. SMITH and J. MICHAEL BRADY, SUSAN—A New Approach to Low Level Image Processing, International Journal of Computer Vision 23(1), 45–78 (1997), 1997 Kluwer Academic Publishers. Manufactured in The Netherlands. Received May 3, 1993; Revised February 3, 1995; Accepted October 23, 1995	
	11	B. BLAIS, N. INTRATOR, H. SHOUVAL & L. COOPER, Receptive field formation in natural scene environments: comparison of single cell learning rules, Brown University Physics Dept. & Institute for Brain and Neural Systems, Brown University, Providence, RI 02912, February 23, 1998	

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10/015,931 **Application Number** December 8, 2001 Stephen Conant Filing Date First Named Inventor Group Art Unit 2621 Unassigned **Examiner Name** Attorney Docket Number 81600.911

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Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher_city and/or country where published	т	
	12	J.J. KOENDERINK & A. J. VAN DOORN, Representation of Local Geometry in the Visual System, Biological Cybernetics, 55 367-375 (1987)		
	13	ROBERT C. BOLLES, Robust feature matching through maximal cliques, SPIE Vol 182 Imaging Applications for Automated Industrial Inspection & Assembly (1979)		
	DAVID J. FIELD, What is the Goal of Sensory Coding? Neural Computation 6, 559-601 (1994)			
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